## AMENDMENTS TO THE CLAIMS:

## Please amend the claims as follows:

- 1. (Canceled)
- 2. (Currently Amended) The A luminous body with a prolonged fluorescence lifetime-according to claim 1, characterized in that saidwherein the luminous body comprises silicate-germanate and is doped with europium to improve its thermostability, wherein the luminous body comprises an additional dopant and corresponds to the empirical formula:

$$M'{}_aM''{}_b(Si_{1-z}Ge_z)_c(Al,Ga,In)_d(Sb,V,Nb,Ta)_cO_{(a+b+2c+3d/2+5e/2-n/2)}X_n:Eu_{x_0}R_y$$
 wherein:

M' represents one or more elements selected from the group consisting of calcium (Ca), strontium (Sr), barium (Ba), and zinc (Zn);

M" represents one or more elements selected from the group consisting of magnesium (Mg), cadmium (Cd), manganese (Mn), and beryllium (Be);

R represents one or more elements selected from the group consisting of La, Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Bi, Sn, and Sb;

X represents an ion selected from the group consisting of fluorine (F), chlorine (Cl), and bromine (Br) to balance the charge;

and

 $0.5 \le a \le 8$ 

 $0 \le b \le 5$ ,

 $0 < c \le 10$ .

 $0 \le d \le 2$ 

 $0 \le e \le 2$ .

 $0 \le n \le 4$ 

 $0 \le x \le 0.5$ 

 $0 \le y \le 0.5$ , and

 $0 \le z \le 10 < z < 1$ 

3. (Currently Amended) The luminous body with a prolonged fluorescence lifetime according to claim 1, characterized in that said wherein the luminous body comprises aluminate-gallate and is doped with europium to improve its thermostability, wherein the luminous body comprises an additional dopant and corresponds to the empirical formula:

$$M'_4(Al,Ga)_{14}(Si,Ge)_pO_{25+2p}:Eu_x,R_y$$

wherein:

M' represents one or more elements selected from the group consisting of Sr, Ba, Ca,

R represents one or more elements selected from the group consisting of La, Ce, Pr,

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Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Bi, Sn, and Sb;

and

$$0 , or$$

the empirical formula

$$M''(Al,Ga)_2(Si,Ge)_pO_{4+2p}:Eu_x,R_y$$

wherein:

M" represents one or more elements selected from the group consisting of Sr, Ba, Ca,

Mg, and Zn;

R represents one or more elements selected from the group consisting of La, Ce, Pr,

Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Bi, Sn, and Sb;

and

0 ,

 $0 \le x \le 0.5$ , and

 $0 \le y \le 0.5$ .

4. (Currently Amended) The luminous body with a prolonged fluorescence lifetime

according to claim +2, eharacterized in that said wherein the luminous body further comprises aluminate and is doped with europium to improve its thermostability, wherein the luminous body comprises an additional dopant and corresponds to represented by the empirical formula:

wherein:

M' represents one or more elements selected from the group consisting of Ba, Sr, and Ca:

M" represents one or more elements selected from the group consisting of lithium (Li), sodium (Na), potassium (K), and rubidium (Rb);

M" represents Dy;

M"" represents Mg or Mn:

R represents one or more elements selected from the group consisting of La, Ce, Pr, Nd, Sm, Gd, Tb, Ho, Er, Tm, Yb, Lu, Bi, Sn, and Sb;

 $0 \le x \le 0.5$ , and

 $0 \le y \le 0.5$ .

5. (Currently Amended) The <u>A</u> luminous body with a prolonged fluorescence lifetime according to claim—I, characterized in that said wherein the luminous body comprises alkaline earth metal aluminate-gallate and is doped with europium to improve

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its thermostability, wherein the luminous body comprises an additional dopant and corresponds to the empirical formula:

$$M'_{1-a}(Al,Ga)_b(Si,Ge)_cO_{1.5b+1+3c/2}:Eu_x,R_y$$

wherein:

M' represents one or more elements selected from the group consisting of Ca, Sr, Ba, and Mg;

R represents one or more elements selected from the group consisting of La, Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Bi, Sn, and Sb;

and

 $0 \le a \le 1$ .

 $0 \le c \le 8$ .

 $0 \le x \le 0.5$ , and

 $0 \le y \le 0.5$ .

6. (Currently Amended) The luminous body with a prolonged fluorescence lifetime according to claim +2, eharacterized in that said wherein the luminous body is in the form of comprises a single type or a mixture of two or more types.

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7. (Currently Amended) The luminous body with a prolonged fluorescence

lifetime according to claim +2, eharacterized in that said wherein the luminous body is

used as a luminous layer in the preparation of LEDa light-emitting diode (LED).

8. (Currently Amended) The luminous body with a prolonged fluorescence

lifetime according to claim +2, characterized in that saidwherein the luminous body is

used in a layer which emits light ranging from colored light to white light in LEDa

light-emitting diode (LED).

9. (Currently Amended) The luminous body with a prolonged fluorescence

lifetime according to claim +2, characterized in that said wherein the luminous body is

used in LED a light-emitting diode (LED) which, upon switch-off of excitation energy

of a luminous layer, causes a color change in emission of a radiation.

10. (Currently Amended) The luminous body with a prolonged fluorescence

lifetime according to claim 42, eharacterized in that said wherein the luminous body is in

the form of comprises a single type or a mixture of two or more types and is used in the

preparation of a luminous layer of a compact energy saving lamp.

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12. (Currently Amended) An optical device eharacterized by-comprising:

an LED light-emitting diode (LED) element;

a power feeding part for mounting saidthe LED element thereon and feeding power to saidthe LED element;

a light transparent sealing part for sealing saidthe LED element and saidthe power feeding part integrally with each other; and

a wavelength converting part for emitting light upon excitation based on light emitted from saidthe LED element, said the wavelength converting part comprising a the luminous body as defined by claim 2, comprising an activator and further at least one coactivator selected from the group consisting of lanthanum (La), cerium (Ce), praseodymium (Pr), neodymium (Nd), samarium (Sm), gadolinium (Gd), terbium (Tb), dysprosium (Dy), holmium (Ho), erbium (Er), thulium (Tm), ytterbium (Yb), lutetium (Lu), bismuth (Bi), tin (Sn), antimony (Sb) and analogues thereof as an additional luminescent center for enhancing the thermostability, wherein the luminous body comprises zine (Zn).

- (Currently Amended) An optical device eharaeterized by-comprising:
   an LEDlight-emitting diode (LED) lamp;
- a light guiding part for guiding light emitted from saidthe LED lamp; and

  a wavelength converting part for emitting light upon excitation based on light
  guided through saidthe light guiding part, saidthe wavelength converting part
  comprising athe luminous body as defined by claim 2.

an activator and further at least one coactivator selected from the group consisting of lanthanum (La), cerium (Ce), praseodymium (Pr), neodymium (Nd), samarium (Sm), gadolinium (Gd), terbium (Tb), dysprosium (Dy), holmium (Ho),

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16. (Canceled)

17. (Canceled)

18. (Currently Amended) The optical device according to claim 12, eharaeterized in that saidwherein the wavelength converting part is included in saida light transparent sealing resin for sealing saidthe LED element.

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19. (Currently Amended) The optical device according to claim 12, eharacterized-in that saidwherein the luminous body is-comprises a thin-film luminous body layer that is sealed with saida light transparent glass.

20. (Currently Amended) The optical device according to claim 19, characterized in that saidwherein the luminous body layer is planar.

21. (Currently Amended) The optical device according to claim 12, eharacterized in that saidwherein the wavelength converting part is provided on a surface of the a sealing resin having comprising an optical shape that radiates light emitted from saidthe LED element in a desired lighting area.

22. (Currently Amended) The optical device according to claim 11,

characterized in that saidwherein the wavelength converting part is excited upon

exposure to blue light and/or ultraviolet light with wavelengths ranging from 300 nm to

500 nm.